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a series of demonstrations at 20 Hanover Square, W., on 'The Practical Use of the Microscope and its Accessories,' to be given from 7 to 8 P.M. on the third Friday in each month during the ensuing session. The first will be on November 16, when Mr. H. F. Angus will deal with axial substage illumination, including the use of the plane and concave mirrors, substage condensers and methods of centering the illuminant and of obtaining critical illumination. At other demonstrations, the order of which is not yet finally settled, the following subjects, among others, will be considered: substage non-axial illumination, including oblique and dark ground illumination; the use of the micropolariscope; various methods of illuminating opaque objects; the testing and comparison of objectives; and the employment of micrometers and finders. These demonstrations will be in addition to the 'Gossip' meetings of the club, which are held on the first Friday, and to the ordinary meetings, held also on the third Friday of the month at 8 P.M.

UNIVERSITY AND EDUCATIONAL NEWS.

MR. ALFRED C. CHAPIN has given Williams College, of which he is an alumnus, an additional gift of \$50,000, to be used by the trustees without restriction. Another New York alumnus, Mr. Charles T. Barney, has given \$10,000 to the college.

THE Oberlin correspondent of the New York *Evening Post* states that the half-million fund for Oberlin College, as completed, amounts to \$501,608. This is divided under the following funds: \$125,000 for a new library building given by Mr. Andrew Carnegie, \$100,000 for library endowment, \$100,000 from an anonymous donor in Boston for the increase of salaries of teachers in the college and seminary, \$25,000 for an art building and its endowment, \$5,000 for the Barrows' Memorial Building for Men, and \$146,608 for miscellaneous purposes. The gift of the Boston donor enables the trustees to increase by \$200 the salaries of twenty-four full professors. The amount of the \$146,608 is devoted to the following objects: \$85,000 given by Miss Anne

Walworth for the endowment of the Slavic department, \$15,000 given by Mr. F. Norton Finney as an addition to the Finney Memorial Chapel fund, \$21,558 for equipment and endowment in various departments, and \$25,000 for new scholarships and loan funds. Of this, \$10,000 is in scholarships for self-supporting women, and \$10,000 is in the Gilchrist banking fund, the income of which may be used as temporary loans to students. This fund was a bequest from Ella Gilchrist Potter, of Alpena, Mich. The largest single gift toward the library endowment was that of Dr. C. N. Lyman, of Wadsworth. This amounted to \$34,000. The remaining \$66,000 was given by fifty-five donors in sums ranging from \$10,000 to \$25.

THE facilities of the engineering department of Purdue University have been increased by the completion of a building containing three floors, each 75 x 130 feet, for the department of civil engineering, and by an addition to the electrical laboratory 68 x 90 feet to give room for additional equipment. This room is to be served by a traveling crane which may be utilized in transferring heavy equipment from the laboratory to a new lecture room which adjoins. There have been added to the materials testing laboratory and to the steam engine laboratory a number of machines, including a 100,000-pound Olsen testing machine, a Fairbanks-Morse 50 horsepower gas producer and gas engine, a 20 horsepower DeLava steam turbine with direct-connected centrifugal pump, a steam Ingersoll-Rand air compressor, a Foster super-heater of the type supplied by the Power Specialty Company, a Gerry-Emmons gasoline engine, an Abner Doble water motor, and an Allis-Chalmers 8 x 24 Corliss engine, direct-connected with a centrifugal pump of 4,000 gallons capacity.

PROFESSOR W. C. SABINE, who holds a chair of physics at Harvard University and is known for his researches in acoustics and optics, has been appointed dean of the Lawrence Scientific School to succeed the late Professor Shaler.

DR. W. B. CANNON, assistant professor of physiology in the Harvard Medical School,

has been promoted to the George Higginson professorship in succession to Professor H. P. Bowditch, who has become professor emeritus. Dr. Wm. T. Porter has been promoted from an associate professorship of physiology to a chair of comparative physiology.

THE administrative board for the Graduate School of Arts and Sciences of Harvard University for 1906-7 is as follows: Professors W. M. Davis, acting dean, E. L. Mark, G. F. Moore, H. W. Smyth, G. L. Kittredge, Hugo Münsterberg, W. C. Sabine, Maxime Bôcher, E. F. Gay, J. A. Walz.

MR. W. L. PUFFER, associate professor of electrical engineering at the Massachusetts Institute of Technology, has resigned and is succeeded by Professor George C. Shaad, of the University of Wisconsin.

PROFESSOR E. H. SNEATH has been granted a second year's leave of absence from Yale University. Dr. Paul Monroe, professor of the history of education at Teachers College, Columbia University, will have charge of one of his courses.

DR. IRA D. CARDIFF, assistant in botany at Columbia University for the past two years, has resigned to accept the professorship of botany in the University of Utah, Salt Lake City, Utah.

MR. CHESTER A. DARLING, A.B. and A.M., now of Defiance College, Ohio, has become assistant of botany at Columbia University.

THE following appointments are announced at Cornell University: J. C. Peebles, H. W. Riley, M. F. Thomas, George Carpenter and W. H. Van Winkle, instructors in experimental engineering; F. H. Kroger, instructor in electrical engineering; D. C. Gillespie, instructor in mathematics; Lowell B. Judson, assistant professor of horticulture.

AT Dartmouth College, appointments have been made as follows: *Assistant professors*, Dr. D. H. Gerould, biology; Dr. G. M. Poor, astronomy. *Instructors*, R. M. Barton and F. C. Moore, mathematics; A. H. Chivers, biology; Dr. C. H. Johnston, philosophy. *Assistants*, F. L. Adams and C. Sheard, physics.

THE following advancements in the teaching staff of Lehigh University have been announced: Assistant Professor Arthur E.

Meaker, C.E., and Assistant Professor Preston A. Lambert, M.A., become professors of mathematics, and John H. Ogburn, C.E., assistant professor of mathematics; Assistant Professor John D. Irving, Ph.D., becomes professor of geology; Assistant Professor Philip M. Palmer, A.B., becomes professor of modern languages and literatures; Barry MacNutt, E.E., M.S., becomes assistant professor in physics; Assistant Professor William B. Schober, Ph.D., becomes acting professor of chemistry in charge of the department, in place of Professor William H. Chandler, Ph.D., resigned.

NEW appointments at Purdue University are as follows: W. K. Hatt, Ph.D., formerly professor of applied mechanics, to be professor of civil engineering in charge of the department; Mr. Paul B. Brenneman, B.S., 1894, C.E., 1897, State College of Pennsylvania, formerly engineer and superintendent of mining construction and operation, to be instructor in civil engineering; Mr. Arthur W. Cole, B.S., Worcester Polytechnic Institute, 1902, formerly of the University of Maine, to be instructor in thermodynamics; Mr. L. W. Wallace, B.S., Texas A. and M. College, 1903, late with the motive power department of the Santa Fe Railroad, to be instructor in car and locomotive design; Mr. W. T. Small, B.S., Purdue, 1903, formerly with the Cooper-Hewitt Electric Company, to be instructor in the electrical laboratory; Mr. C. E. Schutt, B.S., Purdue, 1905, formerly with the New York Telephone Company, Mr. George Lamke, B.S., University of Michigan, 1906, and Mr. W. A. Rush, B.S., Purdue, 1906, to be assistants in the electrical laboratory; Mr. R. D. Kneale, B.S., Purdue, 1906, and Mr. M. L. Allen, B.S., University of Wisconsin, 1906, to be assistants in the civil engineering department.

MR. ROBERT E. LOVING, Ph.D. (Johns Hopkins, '05), has been elected professor of physics at Cornell College, Iowa. Mr. Robert W. Getchell has been appointed assistant in the chemical department.

PROFESSOR WIEN, of Würzburg, has declined the call to succeed the late Professor Drude, at Berlin, on the ground, it is said, that the government will not erect a modern physical laboratory.